

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) Method for producing plants with at least one altered
~~altering a plant characteristic selected from one or more of~~ increased yield, increased
biomass, altered architecture ~~[[or]]~~and altered cell division of the plant compared to a
control plant, said method comprising increasing expression in ~~[[the]]~~ plants of a an
~~isolated-nucleic acid sequence encoding plant class-2 non-symbiotic haemoglobin by~~
transforming said plants with a nucleic acid sequence encoding plant class-2 non-
symbiotic haemoglobin to produce a transformed plants, said ~~isolated-nucleic acid~~
sequence being SEQ ID NO:3 or a nucleic acid sequence encoding the amino acid
sequence of SEQ ID NO:4, ~~wherein such that~~ the plant characteristic selected from one
or more of increased yield, increased biomass, altered architecture or altered cell
division is altered, and
selecting from the transformed plants those transformed plants which have at
least one of said altered plants characteristics.

2. (Original) Method of claim 1, wherein said increased yield comprises
increased seed yield.

Claims 3-30. (Canceled)